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VIBRATIONS. See: differential equations; elasticity (wave propagation); electricity; hydrodynamics (wave propagation); mechanics (oscillations); numerical methods (differential equations; practical harmonic analysis).

VISCOUS FLUIDS. See: hydrodynamics (viscous fluids).

WARING PROBLEM. See: number theory (Waring problem).

WAVE MECHANICS. See: quantum mechanics.

WAVES. See: acoustics; differential equations; elasticity (wave propagation); electricity (waves); geophysics; hydrodynamics (wave propagation); numerical methods (differential equations).

WEBS, GEOMETRY OF. See: differential geometry (families of curves).

WHITTAKER FUNCTIONS. See: special functions (Bessel functions).

ZEROS. See: algebra: equations (zeros); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); special functions.

ZETA FUNCTIONS. See: Dirichlet series (zeta functions); number theory.

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TRANSLITERATION OF RUSSIAN

The following system of transliterating Russian has been adopted by Mathematical Reviews for use beginning with volume 7.

8	=	a	л	=	1	ц	=	C
б	=	b	M	=	m	ч	=	č
В	=	v	H	=	n	m	=	š
r	=	g	0	=	0			šč
Д	=	d	п	=	p	ъ	=	"
	=		p	=	r		=	
ж	=	ž	e	=	S	ь	=	*
3	=	Z	T	=	t	9	=	è
H	=	i	y	=	u	10	=	yu
Ħ	=	I -	φ	=	f	H	=	ya
K	=	k	x	=	h			

The system formerly used differed from this as follows: I was j, h was ch or kh, "was', 'was j, è was-e, yu was ju, ya was ia.

Whenever an author's name is transliterated in the journal in which his paper appears, Mathematical Reviews uses that transliteration.

ERRATA

VOLUME 1

P. 300: Capelli.

In the title read "polygenic" instead of "polygonal."

VOLUME 2

P. 224: Eidelheit.

In the first two lines read: "Let . . . $\mathfrak{A}(E)$ be the ring of all linear operations. . . ."

VOLUME 3

P. 51: Eidelheit.

The paper is identical with that reviewed in these Rev. 2, 224.

√ P. 182: Buzano.

Theorem (1) had previously been proved by G. H. A. Grosheide [Math. Ann. 116, 334-348 (1939), §§ 5, 6].

R. J. Walker (Ithaca, N. Y.).

VOLUME 4

P. 151: Kron.

In the title read Trans. Amer. Inst. Elec. Engrs. instead of Elec. Engrg.

P. 240: Benneton (second review).

In the title read C. R. Acad. Sci. Paris.

VOLUME 5

P. 149: Fan.

In line 4 from below read "contains" instead of "is contained in."

P. 238: Colombo.

In the author's name, delete M.

P. 274: Thomas.

In the title read 46 instead of 45.

VOLUME 6

√P. 1: Weyl.

In the title read 46 instead of 45.

P. 73: Eddington.

In the title read 46 instead of 45.

VP. 75: García (first review).

In the title read 46 instead of 45.

P. 75: García (second review).

The paper was quoted from a reprint. The correct pagination is 221-230 instead of 3-12.

P. 85: Caligo.

The volume number was quoted from a reprint. The paper actually appeared in vol. 5, pp. 168-173.

P. 86: Cartan.

For errata to the review, see the review of another paper by the author, these Rev. 7, 447.

P. 120: Amerio.

The volume number was quoted from a reprint. The paper actually appeared in vol. 5, pp. 27-31.

P. 175: Cimino.

The paper is identical with that reviewed in these Rev. 3, 128.

P. 190: García (first review).

In the title read 46 instead of 45.

P. 264: Chen (first review).

In the display, the integral should read

$$\int_0^t \!\! u^p(t-u)^{-p} \varphi(u) du.$$

P. 274: Mackey.

In line 20 from the end of the page, read "M and N are not modular" instead of " $M \cdot + \cdot N$ is not closed."

VOLUME 7

P. 9: Fan (second review).

In line 8 from below read "is contained in" instead of "contains."

P. 16: Temliakov.

In line 2 of the second paragraph read "zeros" instead of "poles."

P. 19: Gnedenko (second review).

The reviewer stated that an error in Cramér's book had not, to the best of his knowledge, been rectified in print. It has subsequently come to his attention that a correction had been published by Cramér [Neuvième Congrès des Mathématiciens Scandinaves, 1938, Helsingfors, 1939, pp. 67–86, in particular, p. 77].

M. Kac (Ithaca, N. Y.).

P. 349

P. 35

P. 35

P. 45

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P. 48: Selberg, Atle (second review).

A later and stronger result had already been reviewed; cf. these Rev. 6, 58.

H. S. Zuckerman (Seattle, Wash.).

P. 139: Schwerdtfeger.

Replace the review by the following.

This is an expository article in which the author derives the classical representations of the three-dimensional rotation group in a very clear, concise fashion. One of the derivations of the spin representation is based on the fact that any two-rowed matrix with unit determinant can be associated with a three-rowed matrix,

$$T = \begin{pmatrix} \delta & -\beta \\ -\gamma & \alpha \end{pmatrix} \rightarrow D(T) = \begin{pmatrix} \alpha^3 & 2\alpha\gamma & \gamma^2 \\ \alpha\beta & \alpha\delta + \beta\gamma & \gamma\delta \\ \beta^2 & 2\beta\delta & \delta^2 \end{pmatrix}.$$

The group T^* of matrices D(T) is an isomorphic representation of the group T of matrices T if and only if $-E_2$ is not an element of T. If T contains $-E_3$, the correspondence $T \to D(T)$ is a two-one homomorphism.

A. Schwartz (State College, Pa.).

P. 197: Sparre Andersen.

In a subsequent paper by the author and B. Jessen [cf. these Rev. 7, 421] it is pointed out that the paper contains an error which makes the result doubtful. It should be understood that the intention of the paper was to investigate general measures in the spaces considered and not only product measures (as might have been inferred from the review).

W. Feller (Ithaca, N. Y.).

P. 223: Johnsen.

In the author's name read Leif instead of Lief.

P. 327 Stobler

In lines 3 and 2 from below, read "of contact transformations" instead of "a contact transformation." P. 349: Scholte.

In the title read "waves" instead of "depressions."

P. 350: Weinel.

The correct pagination is 228-230.

PV 359: Arf.

In line 6 from below, read (iii) instead of (i').

P 453 Zaanen

The definition of a symmetrizable operator K in a Hilbert space R was stated incorrectly in the review. The correct definition is as follows: let $H \neq 0$ be a completely continuous, positive definite and symmetric operator defined in R, E the projection of R on the orthogonal complement to the manifold of those $h \in R$ for which H(h) = 0. The

linear operator K defined in R is then called (left-) symmetrizable if HK is symmetric. In addition, it is assumed that EK is completely continuous. At the end of the paper the author observes that nearly all his theorems still hold if the assumption of complete continuity of H is replaced by the assumption of boundedness.

E. H. Rothe (Ann Arbor, Mich.).

Pp. 513 f.: Cesari.

In line 18, page 514, instead of "It is shown that . . .," read "It is stated that the author has proved in another paper [not available to the reviewer] that. . . ."

In line 12 from the end of the review, read " $G(\Phi) = \sum G(\pi_i)$ for every subdivision π_1, \dots, π_n of A into simple polygonal

regions."



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